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PASSWORD:
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 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  SEP 09   CA/CAplus records now contain indexing from 1907 to the
                   present
 NEWS  4  DEC 08   INPADOC: Legal Status data reloaded
 NEWS  5  SEP 29   DISSABS now available on STN
 NEWS  6  OCT 10   PCTFULL: Two new display fields added
 NEWS  7  OCT 21   BIOSIS file reloaded and enhanced
 NEWS  8  OCT 28   BIOSIS file segment of TOXCENTER reloaded and enhanced
 NEWS  9  NOV 24   MSDS-CCOHS file reloaded
 NEWS 10  DEC 08   CABA reloaded with left truncation
 NEWS 11  DEC 08   IMS file names changed
 NEWS 12  DEC 09   Experimental property data collected by CAS now available
                   in REGISTRY
 NEWS 13  DEC 09   STN Entry Date available for display in REGISTRY and CA/CAplus
 NEWS 14  DEC 17   DGENE: Two new display fields added
 NEWS 15  DEC 18   BIOTECHNO no longer updated
 NEWS 16  DEC 19   CROPU no longer updated; subscriber discount no longer
                   available
 NEWS 17  DEC 22   Additional INPI reactions and pre-1907 documents added to CAS
                   databases
 NEWS 18  DEC 22   IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
 NEWS 19  DEC 22   ABI-INFORM now available on STN
 NEWS 20  JAN 27   Source of Registration (SR) information in REGISTRY updated
                   and searchable
 NEWS 21  JAN 27   A new search aid, the Company Name Thesaurus, available in
                   CA/CAplus
 NEWS 22  FEB 05   German (DE) application and patent publication number format
                   changes
 NEWS 23  MAR 03   MEDLINE and LMEDLINE reloaded
 NEWS 24  MAR 03   MEDLINE file segment of TOXCENTER reloaded
 NEWS 25  MAR 03   FRANCEPAT now available on STN

 NEWS EXPRESS  MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:46:46 ON 10 MAR 2004

=> s vaudry hubert /au
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file medline biosis embase caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 0.21 0.21

FILE 'MEDLINE' ENTERED AT 14:47:16 ON 10 MAR 2004

FILE 'BIOSIS' ENTERED AT 14:47:16 ON 10 MAR 2004
COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC.(R)

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FILE 'CAPLUS' ENTERED AT 14:47:16 ON 10 MAR 2004
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=> s vaudry hubert /au
L1 656 VAUDRY HUBERT

=> s chartrei nicolas /au
L2 0 CHARTREI NICOLAS

=> s beaudet alain /au
L3 187 BEAUDET ALAIN

=> s hungarian lenkei/au
L4 0 HUNGARIAN LENKEI/AU

=> s llorens cortes catherine/au
L5 120 LLORENS CORTES CATHERINE/AU

=> s (compound (s) library) (p) internali? (p) gpcr (p) fluores?
L6 0 (COMPOUND (S) LIBRARY) (P) INTERNALI? (P) GPCR (P) FLUORES?

=> s library) (p) internali? (p) gpcr (p) fluores?
UNMATCHED RIGHT PARENTHESIS 'LIBRARY) '
The number of right parentheses in a query must be equal to the number of left parentheses.

=> s library (p) internali? (p) gpcr (p) fluores?
L7 4 LIBRARY (P) INTERNALI? (P) GPCR (P) FLUORES?

=> dup rem l7
PROCESSING COMPLETED FOR L7
L8 1 DUP REM L7 (3 DUPLICATES REMOVED)

=> d l8 ibib kwic

L8 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1
ACCESSION NUMBER: 2002461764 MEDLINE

DOCUMENT NUMBER: PubMed ID: 12220620
TITLE: Sphingosine 1-phosphate is a ligand of the human gpr3, gpr6 and gpr12 family of constitutively active G protein-coupled receptors.
AUTHOR: Uhlenbrock Kirsten; Gassenhuber Hans; Kostenis Evi
CORPORATE SOURCE: Aventis Pharma Germany, Disease Group Cardiovascular, Industriepark Hochst, Frankfurt/Main, Germany.. kirsten.uhlenbrock@aventis.com
SOURCE: Cellular signalling, (2002 Nov) 14 (11) 941-53. Journal code: 8904683. ISSN: 0898-6568.
PUB. COUNTRY: England: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200304
ENTRY DATE: Entered STN: 20020911
Last Updated on STN: 20030419
Entered Medline: 20030418

AB Five G protein-coupled receptors (**GPCRs**) for the lysophospholipid sphingosine 1-phosphate (S1P) have been cloned and characterized so far. We report here about the identification of gpr3, gpr6 and gpr12 as additional members of the S1P-**GPCR** family. When expressed transiently in HEK293 cells, gpr3, gpr6 and gpr12 confer constitutive activation of adenylate cyclase (AC) similar in. . . in medium with charcoal-stripped serum (devoid of lipids) significantly reduces cyclic adenosine monophosphate (cAMP) levels, suggesting a lipid-like ligand. A **library** containing 200 bioactive lipids was applied in functional assays recording intracellular Ca(2+) mobilization. S1P and dihydrosphingosine 1-phosphate (DHS1P) were identified. . . of AC is enhanced; and (ii) overexpression of G(alpha)(i) significantly reduces the stimulatory action on intracellular cAMP levels. Agonist (S1P)-mediated **internalization** can be visualized in intact HEK293 cells using a gpr6 green **fluorescent** protein (GFP) fusion protein. In summary, our data suggest that gpr3, gpr6 and gpr12 are a family of constitutively active. . .

=> s screen? (p) internali? (p) gpcr (p) fluores?
L9 12 SCREEN? (P) INTERNALI? (P) GPCR (P) FLUORES?

=> dup rem l9
PROCESSING COMPLETED FOR L9
L10 4 DUP REM L9 (8 DUPLICATES REMOVED)

=> d l10 total ibib kwic

L10 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:931468 CAPLUS
DOCUMENT NUMBER: 140:13002
TITLE: Screening for effectors of G protein-coupled receptor internalization by measuring the effects of test substances on distribution of components of the signal transduction mechanism
INVENTOR(S): Oakley, Robert H.; Hudson, Christine C.
PATENT ASSIGNEE(S): Norak Biosciences, Inc., USA
SOURCE: PCT Int. Appl., 127 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003097795	A2	20031127	WO 2003-US14581	20030512

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2002-379986P P 20020513
US 2002-401698P P 20020807

IT Proteins
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(green **fluorescent**, fusion products with arrestins; **screening** for effectors of **GPCR** **internalization** by measuring effects of test substances on distribution of components of signal transduction mechanism)

L10 ANSWER 2 OF 4 MEDLINE on STN DUPLICATE 1
ACCESSION NUMBER: 2001018413 MEDLINE
DOCUMENT NUMBER: PubMed ID: 10907092
TITLE: Cell-based, high-content screen for receptor internalization, recycling and intracellular trafficking.
AUTHOR: Ghosh R N; Chen Y T; DeBiasio R; DeBiasio R L; Conway B R; Minor L K; Demarest K T
CORPORATE SOURCE: Cellomics Inc., Pittsburgh, PA, USA.
SOURCE: BioTechniques, (2000 Jul) 29 (1) 170-5.
Journal code: 8306785. ISSN: 0736-6205.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200011
ENTRY DATE: Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001109

AB A variety of physiologically important receptors are **internalized** and then recycled back to the plasma membrane by the endocytic recycling compartment. These include the transferrin receptor and many G-protein coupled receptors (**GPCRs**). The **internalization** of **GPCRs** is a result of agonist stimulation. A cell-based **fluorescent** imaging assay is described that detects and quantifies the presence of **fluorescently** labeled receptors and macromolecules in the recycling compartment. This High Content **Screening** application is conducted on the ArrayScan II System that includes **fluorescent** reagents, imaging instrumentation and the informatics tools necessary to **screen** for compounds that affect receptor **internalization**, recycling and **GPCR** activation. We demonstrate the Receptor **Internalization** and Trafficking application by quantifying (i) the **internalization** and recycling of the transferrin receptor using a **fluorescently** labeled ligand and (ii) the **internalization** of a physiologically functional model **GPCR**, a GFP-parathyroid hormone receptor chimera. These assays give high signal-to-noise ratios, broad dynamic ranges between stimulated and unstimulated conditions and low variability across different **screening** runs. Thus, the Receptor **Internalization** and Trafficking application, in conjunction with the ArrayScan II System, forms the basis of a robust, information-rich and automated **screen** for **GPCR** activation.

L10 ANSWER 3 OF 4 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 2

ACCESSION NUMBER: 1999:281319 BIOSIS
DOCUMENT NUMBER: PREV199900281319
TITLE: Quantification of G-protein coupled receptor internalization using G-protein coupled receptor-green fluorescent protein conjugates with the ArrayScanTM high-content screening system.
AUTHOR(S): Conway, Bruce R. [Reprint author]; Minor, Lisa K.; Xu, Jun Z.; Gunnet, Joseph W.; DeBiasio, Robbin; D'Andrea, Michael R.; Rubin, Richard; DeBiasio, Richard; Giuliano, Ken; Zhou, Lubing; Demarest, Keith T.
CORPORATE SOURCE: R.W. Johnson Pharmaceutical Research Institute, 1000 Route 202, Room B-122, Raritan, NJ, 08869, USA
SOURCE: Journal of Biomolecular Screening, (April, 1999) Vol. 4, No. 2, pp. 75-86. print.
ISSN: 1087-0571.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 28 Jul 1999
Last Updated on STN: 28 Jul 1999

AB Many G-protein coupled receptors (**GPCRs**) undergo ligand-dependent homologous desensitization and **internalization.** Desensitization, defined as a decrease in the responsiveness to ligand, is accompanied by receptor aggregation on the cell surface and **internalization** via clathrin-coated pits to an intracellular endosomal compartment. In this study, we have taken advantage of the trafficking properties of **GPCRs** to develop a useful **screening** method for the identification of receptor mimetics. A series of studies were undertaken to evaluate the expression, functionality, and ligand-dependent trafficking of **GPCR**-green **fluorescent** protein (GFP) fusion conjugates stably transfected into HEK 293 cells. These **GPCR**-GFP expressing cells were then utilized in the validation of the ArrayScanTM (CellomicsTM, Pittsburgh, PA), a microtiter plate imaging system that permits cellular and subcellular quantitation of **fluorescence** in whole cells. These studies demonstrated our ability to measure the **internalization** of a parathyroid hormone (PTH) receptor-GFP conjugate after ligand treatment by spatially resolving **internalized** receptors. **Internalization** was time- and dose-dependent and appeared to be selective for PTH. Similar results were obtained for a beta2-adrenergic receptor (beta2 AR)-GFP conjugate stably expressed in HEK 293 cells. The **internalized** GFP-labeled receptors were visualized as numerous punctate "spots" within the cell interior. An algorithm has been developed that identifies and collects information about these spots, allowing quantification of the **internalization** process. Variables such as the receptor-GFP expression level, plating density, cell number per field, number of fields scanned per well,. . . spot size, and spot intensity were evaluated during the development of this assay. The method represents a valuable tool to **screen** for receptor mimetics and antagonists of receptor **internalization** in whole cells rapidly.

L10 ANSWER 4 OF 4 MEDLINE on STN DUPLICATE 3
ACCESSION NUMBER: 1998244535 MEDLINE
DOCUMENT NUMBER: PubMed ID: 9585136
TITLE: Molecular mechanisms of G protein-coupled receptor desensitization and resensitization.
AUTHOR: Ferguson S S; Zhang J; Barak L S; Caron M G
CORPORATE SOURCE: John P. Robarts Research Institute and Department of Physiology, University of Western Ontario, London.
SOURCE: Life sciences, (1998) 62 (17-18) 1561-5. Ref: 22
Journal code: 0375521. ISSN: 0024-3205.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)

LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199805
ENTRY DATE: Entered STN: 19980609
Last Updated on STN: 20000303
Entered Medline: 19980526

AB Beta-arrestin proteins play a dual role in regulating G protein-coupled receptor (**GPCR**) responsiveness by contributing to both receptor desensitization and **internalization.** Recently, beta-arrestins were also shown to be critical determinants for beta2-adrenergic receptor (beta2AR) resensitization. This was demonstrated by overexpressing wild-type. . . cell types was shown to be dependent upon beta-arrestin expression levels. To further study the mechanisms underlying beta-arrestin function, green **fluorescent** protein was coupled to beta-arrestin2 (beta arr2GFP), thus allowing the real-time visualization of the agonist-dependent trafficking of beta-arrestin in living. . . from the most sensitive second messenger readout systems. Beta arr2GFP translocation was GRK-dependent and was demonstrated for 16 different ligand-activated **GPCRs.** Because beta-arrestin binding is a common divergent step in **GPCR** signalling, this assay represents a universal methodology for **screening** orphan receptors, GRK inhibitors and novel **GPCR** ligands. Moreover, beta arr2GFP provides a valuable new tool to dissect the biological function and regulation of beta-arrestin proteins.

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	47.10	47.31

STN INTERNATIONAL LOGOFF AT 14:55:48 ON 10 MAR 2004

L Number	Hits	Search Text	DB	Time stamp
2	281	(peptide same library) and internali$7 and gpcr and (fluores$8 same label)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/10 11:09
1	322	(peptide same library) and internali$7 and gpcr and fluores$8	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/10 11:21
3	0	(compund same library) and internali$7 and gpcr and fluores$8	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/10 11:22
4	333	(compound same library) and internali$7 and gpcr and fluores$8	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/10 11:24
5	388	screen$7 and internali$7 and gpcr and fluores$8	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/10 11:35
6	3	vaudry-hubert.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/10 11:35
7	0	chartrei-nicolas.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/10 11:36
8	9	beaudet-alain.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/10 11:36
9	0	hungarian-lenkei.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/10 11:36
10	7	llorens-cortes-catherine.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/10 11:36